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Aluminum Alloy Strips for Television

电视机用铝合金带材

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Aluminum Alloy Strips for Television

1 Scope

This Standard stipulates the requirements, test methods, inspection rules, marking, packaging, transportation, storage, quality certificate and order sheet (or contract) content of aluminum alloy strips for television.

This Standard is mainly applicable to aluminum alloy strips (hereinafter referred to as strips) for displayer, circuit board support and heat dissipation of LCD and LED flat panel TV.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specific date, only versions with the specific date are applicable to this document. In terms of references without a specific date, the latest versions (including all the modification orders) are applicable to this document.

GB/T 232 *Metallic Materials - Bend Test*

GB/T 3190 *Wrought Aluminum and Aluminum Alloy - Chemical Composition*

GB/T 3199 *Wrought Aluminum and Aluminum Alloy Products - Packing, Marking, Transporting and Storing*

GB/T 3880.3 *Wrought Aluminum and Aluminum Alloy Plates, Sheets and Strips for General Engineering - Part 3: Tolerances on Forms and Dimensions*

GB/T 7999 *Optical Emission Spectrometric Analysis Method of Aluminum and Aluminum Alloys*

GB/T 8170 *Rules of Rounding off for Numerical Values & Expression and Judgement of Limiting Values*

GB/T 16865 *Test Pieces and Method for Tensile Test for Wrought Aluminum and Magnesium Alloys Products*

GB/T 17432 *Methods for Sampling for Analyzing the Chemical Composition of Wrought Aluminum and Aluminum Alloys*

GB/T 20975 *Methods for Chemical Analysis of Aluminum and Aluminum Alloys*

4 Test Methods

4.1 Chemical Composition

4.1.1 The analytical method of chemical composition shall comply with the stipulations in GB/T 20975 or GB/T 7999. The arbitration analysis method shall adopt the method stipulated in GB/T 20975.

4.1.2 "A1" content shall be calculated in accordance with the method stipulated in GB/T 3190. In the calculation of "A1" content, take the sum of the analytical value of conventional analytical elements and unconventional analytical elements, which are suspected to be excessive, as "the sum of element content".

4.1.3 The determination of analytical value shall adopt rounding-off comparison method. The rounding-off rules of numerical value shall comply with relevant stipulations in GB/T 8170. The rounding-off numerical digit shall be consistent with the limit digit stipulated in GB/T 3190.

4.2 Dimensional Deviation

4.2.1 Dimensional rounding-off

Rounding-off of measured dimensions is not allowed. The determination method of limit value shall comply with the stipulations in GB/T 8170.

4.2.2 Unevenness

Randomly take a sample (length: 2,000 mm) from strips (the sample shall try to include the wavy part of the strips). Freely place the sample on a platform. In accordance with the stipulations in GB/T 3880.3, detect wave height and number of waves.

4.2.3 Others

Other dimensional deviations shall be measured through measuring instruments of corresponding accuracy, or, receive visual inspection.

4.3 Tensile Mechanical Property at Room Temperature

Room-temperature tensile test shall be conducted in accordance with the method stipulated in GB/T 16865.

4.4 Bending Performance

Room-temperature bending performance shall be conducted in accordance with the method stipulated in GB/T 232.

4.5 Appearance Quality

shall be determined as unqualified.

6 Marking, Packaging, Transportation, Storage and Quality Certificate

6.1 Marking

6.1.1 Product marking

Each coil of strips which are qualified in the inspection shall have an attached label, which includes the following content:

- a) Product name;
- b) Nameplate;
- c) Status;
- d) Dimensions;
- e) Batch No. or coil No. of strips;
- f) Net weight;
- g) Inspection stamp of the supply-side's quality inspection department (or quality inspector's signature or stamp)

6.1.2 Marking of packing box

The marking of strips' packing box shall comply with the stipulations in GB/T 3199.

6.2 Packaging, Transportation and Storage

Packaging, transportation and storage of strips shall comply with the stipulations in GB/T 3199. When the demand-side has special requirements towards the packaging mode of strips, the demand-side and the supply-side shall determine them through negotiation; this content shall be indicated in the order sheet (or contract).

6.3 Quality Certificate

Each coil of strips shall have an attached product quality certificate, which indicates:

- a) The supply-side's name;
- b) Product name;
- c) Nameplate and status;

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